Northwest Science
Volume 69 (1995)
Author and Subject Index

AUTHOR entry headings are distinguished from subject entry headings by capitalization

ACKER, S.A. *see* Peck et al., 184-190
Alaska
  heart rot fungi in forests, Hennon, 284-293
ANDERSON, N.L. *see* Colwell et al., 151-162
ANDERSON, R.J. *see* Merrill et al., 9-18
ants
  in forest logs, Torgersen and Bull, 294-303

bears
  Pleistocene brown bear, Mustoe and Carlstad, 106-113
BETTS, B.J., and R.W. WISSEMAN. Geographic range and habitat characteristics of the caddisfly *Cryptochia neosa*. 46-51
birds
  neotropical migrant landbirds (book review), Manuwal, 345-346
  Pacific Northwest shorebirds (book review), Smith, 249-250
  pileated woodpeckers and ants, Torgersen and Bull, 294-303
Blue Mountains
  Cryptochia caddisfly range and habitat, Betts and Wisseman, 46-51
book reviews
  Conservation and Management of Neotropical Migrant Landbirds (Dobkin), Manuwal, 345-346
  Ecophysiology of Coniferous Forests (Smith and Hinckley), Hansen, 343-344
  Environmental Policy and Biodiversity (Grumbine), Salazar, 336-337
  Fire Ecology of Pacific Northwest Forests (Agee), Morgan, 241-242
  Killer Whales (Ford et al.), VanBlaricom, 79-80
  More Tree Talk (Raphael), Sturtevant, 251-252
  Mountain Environments and Geographic Information Systems (Price and Heywood), Castle, 77-78
  Plants of the Pacific Northwest Coast (Pojar and MacKinnon), Geiser and Grenier, 247-248
  Shorebirds of the Pacific Northwest (Paulson), Smith, 249-250
  Species Diversity in Ecological Communities (Ricklefs and Schluter), Parker, 340-342
  The Landscapes of Craters of the Moon National Monument (Wright and Bunting), Ferguson, 245-246
  These American Lands (Zaslowsky and Watkins), Sater, 338-339
  Wildlife Ecology and Management (Caughley and Sinclair), O'Connell, 243-244
botany
  knapweed reproduction and pollination, Harrod and Taylor, 97-105
  mosses in coniferous forests, Peck et al., 184-190
  Pacific Northwest coast plants (book review), Geiser and Grenier, 247-248
BOWLBY, C.E. *see* Green et al., 223-227
British Columbia
  western redcedar age structure, Daniels et al., 175-183
BRUEGGEMAN, J.J. *see* Green et al., 223-227
BUDY, P., C. LUECKE, W.A. WURTSBAUGH, H.P. GROSS, and C. GUBALA. Limnology of Sawtooth Valley lakes with respect to potential growth of juvenile Snake River sockeye salmon. 133-150
BULL, E.L. *see* Torgersen and Bull, 294-303

caddisflies
  Cryptochia caddisfly range and habitat, Betts and Wisseman, 46-51
California
  treeholes and western treehole mosquito, Colwell et al., 151-162
CALLAHAN-OLSON, A. *see* Merrill et al., 9-18
CAREY, A.B. *see* Ryan and Carey, 204-216
CARLSTAD, C.A. *see* Mustoe and Carlstad, 106-113
CARSON, R.J. *see* Spencer and Carson, 60-71
CARTER, R.E. *see* Daniels et al., 175-183
CASTLE, J.V. Book review: *Mountain Environments and Geographic Information Systems* (Price and Heywood). 77-78
climate
  record at H.J. Andrews Experimental Forest, Greenland, 81-96
Columbia River
  piscivorous fish density and distribution on Columbia and Snake, Zimmerman and Parker, 19-28
COLWELL, A.E., D.L. WOODWARD, and N.L. ANDERSON. Environmental factors affecting the western treehole mosquito (*Aedes sierrensis*). 151-162
coyotes
  coyote and gray wolf response to simulated howling, Gaines et al., 217-222
Craters of the Moon National Monument
  environmental changes (book review), Ferguson, 245-246
crustaceans
  Daphnia mitochondrial DNA, Jarrell, 163-170

DANIELS, L.D., P.L. MARSHALL, R.E. CARTER, and K. KLINKA. Age structure of *Thuja plicata* in the tree layer of old-growth stands near Vancouver, British Columbia. 175-183
diatoms
  intertidal diatoms and sea-level changes, Hemphill- Haley, 29-45
DUAN, J., A.K. SIKKA, and G.E. GRANT. A comparison of stochastic models for generating daily precipitation at the H.J. Andrews Experimental Forest. 318-329

ecology
  ecological risk assessment, Lackey, 171-174

ecophysiology of coniferous forests (book review), Hansen, 343-344
environmental change at Craters of the Moon National Monument (book review), Ferguson, 245-246
environmental policy and biodiversity (book review), Salazar, 336-337
fire ecology (book review), Morgan, 241-242
knapweed reproduction and pollination, Harrod and Taylor, 97-105
macrophyte and macroinvertebrate interactions in a pond, Parsons and Matthews, 265-275
sagebrush/grass ecosystems and western junipers, Tiedemann and Klemmedson, 1-8
salt marsh vegetation, Lefstad and Fonda, 253-264
small mammal communities, Hayward and Hayward, 114-125
species diversity (book review), Parker, 340-342
species-habitat association studies, Wolff, 72-76
treeholes and western treehole mosquito, Colwell et al., 151-162
ungulate grazing in Yellowstone, Singer, 191-203
wildlife management (book review), O'Connell, 243-244
elk
diet in Mount St. Helens blast zone, Merrill, 9-18
ungulate grazing in Yellowstone, Singer, 191-203
Endangered Species Act
"recovery plans", Safford, 330-335

FERGUSON, D.E. Book review: *The Landscapes of Craters of the Moon National Monument* (Wright and Bunting). 245-246
FILIP, G.M., C.A. PARKS, B.E. WICKMAN, and R.G. MITCHELL. Tree wound dynamics in thinned and unthinned stands of grand fir, ponderosa pine, and lodgepole pine in eastern Oregon. 276-283
fires
fire ecology (book review), Morgan, 241-242
firs *see* forests
fish
bull trout habitat use, Saffel and Scarnecchia, 304-317
coho salmon incubation rates, Konecki et al., 126-132
piscivorous fish density and distribution, Zimmerman and Parker, 19-28
sockeye salmon growth in Idaho lakes, Budy et al., 133-150
spawning pink salmon and juvenile coho salmon, Michael, 228-233
FONDA, R.W. *see* Lefstad and Fonda, 253-264
forests
ants in forest logs, Torgersen and Bull, 294-303
climate record at H.J. Andrews Experimental Forest, Greenland, 81-96
ecophysiology of coniferous forests (book review), Hansen, 343-344
fire ecology (book review), Morgan, 241-242
heart rot fungi, Hennon, 284-293
stochastic models for generating daily precipitation, Duan et al., 318-329
timber industry (book review), Sturtevant, 251-252
tree wound dynamics, Filip et al., 276-283
western junipers and soil, Tiedemann and Klemmedson, 1-8
western redcedar age structure, Daniels et al., 175-183
Fort Lewis, Washington
western gray squirrel habitat, Ryan and Carey, 204-216
Forum articles *see* NWS Forum
fungi
heart rot fungi in forests, Hennon, 284-293

GAINES, W.L., G.K. NEALE, and R.H. NANEY. Response of coyotes and gray wolves to simulated howling in north-central Washington. 217-222
GEISER, L., and K. GRENIER. Book review: *Plants of the Pacific Northwest Coast* (Pojar and MacKinnon). 247-248
geography
Geographic Information Systems (book review), Castle, 77-78
geology
Clarkia Miocene lake, Yang et al., 52-59
Enterprise Gravel, Spencer and Carson, 60-71
Pleistocene brown bear, Mustoe and Carlstad, 106-113
GRANT, G.E. *see* Duan et al., 318-329
GREEN, G.A., J.J. BRUEGGEMAN, R.A. GROTEFENDT, and C.E. BOWLBY. Offshore distances of gray whales migrating along the Oregon and Washington coasts, 1990. 223-227
GREENLAND, D. The Pacific Northwest regional context of the climate of the H.J. Andrews Experimental Forest. 81-96
GRENIER, K. *see* Geiser and Grenier, 247-248
GROSS, H.P. *see* Budy et al., 133-150
GROTEFENDT, R.A. *see* Green et al., 223-227
GUBALA, C. *see* Budy et al., 133-150

H.J. Andrews Experimental Forest
climate record, Greenland, 81-96
stochastic models for generating daily precipitation, Duan et al., 318-329
HANSEN, D.H. Book review: *Ecophysiology of Coniferous Forests* (Smith and Hinckley). 343-344
HARROD, R.J., and R.J. TAYLOR. Reproduction and pollination biology of *Centaurea* and *Acroptilon* species, with emphasis on *C. diffusa*. 97-105
HAYWARD, G.D., and P.H. HAYWARD. Relative abundance and habitat associations of small mammals in Chamberlain Basin, central Idaho. 114-125
HAYWARD, P.H. *see* Hayward and Hayward, 114-125
HEMPHILL-HALEY, E. Intertidal diatoms from Willapa Bay, Washington: application to studies of small-scale sea-level changes. 29-45
HENNON, P.E. Are heart rot fungi major factors of disturbance in gap-dynamic forests? 284-293
HOUSTON, D.B. NWS Forum: Response to "Inaccurate data and the Olympic National Park mountain goat controversy". 239-240

Idaho
bull trout habitat use, Saffel and Scarnecchia, 304-317
Clarkia Miocene lake, Yang et al., 52-59
Craters of the Moon National Monument environmental changes (book review), Ferguson, 245-246
Sawtooth Valley lake limnology and sockeye salmon growth, Budy et al., 133-150
small mammal communities, Hayward and Hayward, 114-125

insects
ants in forest logs, Torgersen and Bull, 294-303
Cryptochia caddisfly range and habitat, Betts and Wisseman, 46-51
western treehole mosquito and treeholes, Colwell et al., 151-162

JARRELL, P.E. Sequence analysis of mitochondrial DNA variation in *Daphnia*. 163-170
junipers
western junipers and soil, Tiedemann and Klemmedson, 1-8
see also forests

KLEMMEDSON, J.O. *see* Tiedemann and Klemmedson, 1-8
KLINKA, K. *see* Daniels et al., 175-183
knapweed
reproduction and pollination, Harrod and Taylor, 97-105
KNOWLES, C.R. *see* Yang et al., 52-59
KONECKI, J.T., C.A. WOODY, and T.P. QUINN. Influence of temperature on incubation rates of coho salmon (*Oncorhynchus kisutch*) from ten Washington populations. 126-132

LACKEY, R.T. NWS Forum: The future of ecological risk assessment. 171-174
lakes
Clarkia Miocene lake, Yang et al., 52-59
limnology and sockeye salmon growth, Budy et al., 133-150
macrophyte and macroinvertebrate interactions, Parsons and Matthews, 265-275
salt marsh vegetation, Lefstad and Fonda, 253-264
LEFSTAD, E.A., and R.W. FONDA. Gradient analysis of the vegetation in a lagoonal salt march, Whidbey Island, Washington. 253-264
LUECKE, C. *see* Budy et al., 133-150
LYMAN, R.L. NWS Forum: Inaccurate data and the Olympic National Park mountain goat controversy. 234-238

mammals, large
coyote and gray wolf response to simulated howling, Gaines et al., 217-222
elk diet in Mount St. Helens blast zone, Merrill, 9-18
gray whale migration corridor, Green et al., 223-227
killer whales (book review), VanBlaricom, 79-80
mountain goats in Olympic National Park, Lyman, 234-238
mountain goats in Olympic National Park (continued), Houston, 239-240
Pleistocene brown bear, Mustoe and Carlstad, 106-113
ungulate grazing in Yellowstone, Singer, 191-203
mammals, small
Idaho communities, Hayward and Hayward, 114-125
western gray squirrel habitat, Ryan and Carey, 204-216
MANUWAL, D.A. Book Review: *Conservation and Management of Neotropical Migrant Landbirds* (Dobkin). 345-346
MARSHALL, P.L. *see* Daniels et al., 175-183
marshes
salt marsh vegetation, Lefstad and Fonda, 253-264
MATTHEWS, R.A. *see* Parsons and Matthews, 265-275
MCKEE, W.A. *see* Peck et al., 184-190
MERRILL, E.H., A. CALLAHAN-OLSON, K.J. RAEDEKE, R.D. TABER, and R.J. ANDERSON. Elk (*Cervus elaphus roosevelti*) dietary composition and quality in the Mount St. Helens blast zone. 9-18
MICHAEL, J.H., Jr. Enhancement effects of spawning pink salmon on stream rearing juvenile coho salmon: managing one resource to benefit another. 228-233
MITCHELL, R.G. *see* Filip et al., 276-283
molecular biology
mitochondrial DNA variation in *Daphnia*, Jarrell, 163-170
MORGAN, P. Book Review: *Fire Ecology of Pacific Northwest Forests* (Agee). 241-242
mosses
autoecology in coniferous forests, Peck et al., 184-190
Mount St. Helens
elk diet, Merrill, 9-18
mountain goats
in Olympic National Park, Lyman, 234-238
in Olympic National Park (continued), Houston, 239-240
MUSTOE, G.E., and C.A. CARLSTAD. A late Pleistocene brown bear (*Ursus arctos*) from northwest Washington. 106-113

NANEY, R.H. *see* Gaines et al., 217-222
NEALE, G.K. *see* Gaines et al., 217-222
NWS Forum
ecological risk assessment, Lackey, 171-174
ESA "recovery plans", Safford, 330-335
mountain goats in Olympic National Park, Lyman, 234-238
mountain goats in Olympic National Park (continued), Houston, 239-240
species-habitat association studies, Wolff, 72-76

O'CONNELL, M.A. Book review: *Wildlife Ecology and Management* (Caughley and Sinclair). 243-244
Olympic National Park
mountain goat controversy, Lyman, 234-238
mountain goat controversy (continued), Houston, 239-240
Oregon
ants in forest logs, Torgersen and Bull, 294-303
autoecology of mosses in coniferous forests, Peck et al., 184-190
Enterprise Gravel, Spencer and Carson, 60-71
forest tree wound dynamics, Filip et al., 276-283
gray whale migration corridor, Green et al., 223-227
stochastic models for generating daily precipitation, Duan et al., 318-329
western junipers and soil, Tiedemann and Klemmedson, 1-8

PARKER, R.M. *see* Zimmerman and Parker, 19-28
PARKER, V.T. Book review: *Species Diversity in Ecological Communities* (Ricklefs and Schluter). 340-342
PARKS, C.A. *see* Filip et al., 276-283
PARSONS, J.K., and R.A. MATTHEWS. Analysis of the associations between macroinvertebrates and macrophytes in a freshwater pond. 265-275

PECK, J.E., S.A. ACKER, and W.A. MCKEE. Autoecology of mosses in coniferous forests in the central western Cascades of Oregon. 184-190
pines *see* forests
precipitation
  stochastic models for generating daily precipitation, Duan et al., 318-329
public lands
  federal land policies (book review), Sater, 338-339

QUINN, T.P. *see* Konecki et al., 126-132

RAEDEKE, K.J. *see* Merrill et al., 9-18
redcedar
  western redcedar age structure, Daniels et al., 175-183
  see also forests
REMBER, W.C. *see* Yang et al., 52-59
rivers
  piscivorous fish density and distribution on Columbia and Snake, Zimmerman and Parker, 19-28
RYAN, L.A., and A.B. CAREY. Distribution and habitat of the western gray squirrel (*Sciurus griseus*) on Ft. Lewis, Washington. 204-216

SAFFEL, P.D., and D.L. SCARNECCHIA. Habitat use by juvenile bull trout in belt-series geology watersheds of northern Idaho. 304-317
SAFFORD, H.D. NWS Forum: The recovery planning blues. 330-335
SALAZAR, D.J. Book review: *Environmental Policy and Biodiversity* (Grumbine). 336-337
SATER, S. Book review: *These American Lands* (Zaslowsky and Watkins). 338-339
SCARNECCHIA, D.L. *see* Saffel and Scarnecchia, 304-317
sea-levels
  intertidal diatom studies, Hemphill-Haley, 29-45
SIKKA, A.K. *see* Duan et al., 318-329
SINGER, F.J. Effects of grazing by ungulates on upland bunchgrass communities of the northern winter range of Yellowstone National Park. 191-203
Skagit River
  spawning pink salmon and juvenile coho salmon, Michael, 228-233
SMILEY, C.J. *see* Yang et al., 52-59
SMITH, M.R. Book review: *Shorebirds of the Pacific Northwest* (Paulson). 249-250
Snake river
  piscivorous fish density and distribution on Columbia and Snake, Zimmerman and Parker, 19-28
soils
  western junipers and nutrients, Tiedemann and Klemmedson, 1-8
SPENCER, P.K., and R.J. CARSON. The Enterprise Gravel: the ancestral Wallowa River and neotectonism in northeastern Oregon. 60-71
SPRENKE, K.F. *see* Yang et al., 52-59
squirrels
  western gray squirrel habitat, Ryan and Carey, 204-216
  see also mammals, small
STURTEVANT, V. Book review: *More Tree Talk* (Raphael). 251-252

TABER, R.D. *see* Merrill et al., 9-18
TAYLOR, R.J. *see* Harrod and Taylor, 97-105
TIEDEMANN, A.R., and J.O. KLEMMEDSON. The influence of western juniper development on soil nutrient availability. 1-8
TORGERSEN, T.R., and E.L. BULL. Down logs as habitat for forest-dwelling ants—the primary prey of pileated woodpeckers in northeastern Oregon. 294-303

ungulates
  grazing in Yellowstone, Singer, 191-203

VANBLARICOM, G.R. Book review: *Killer Whales* (Ford et al.). 79-80

Washington
  coho salmon incubation rates, Konecki et al., 126-132
  coyote and gray wolf response to simulated howling, Gaines et al., 217-222
  gray whale migration corridor, Green et al., 223-227
  intertidal diatoms and sea-level changes, Hemphill-Haley, 29-45
  macrophyte and macroinvertebrate interactions in a pond, Parsons and Matthews, 265-275
  mountain goats in Olympic National Park, Lyman, 234-238
  mountain goats in Olympic National Park (continued), Houston, 239-240
  Pleistocene brown bear, Mustoe and Carlstad, 106-113
  salt marsh vegetation, Lefstad and Fonda, 253-264
  western gray squirrel habitat, Ryan and Carey, 204-216
whales
  gray whale migration corridor, Green et al., 223-227
  killer whales (book review), VanBlaricom, 79-80
Whidbey Island
  salt marsh vegetation, Lefstad and Fonda, 253-264
WICKMAN, B.E. *see* Filip et al., 276-283
Willapa Bay, Wash.
  intertidal diatoms and sea-level changes, Hemphill- Haley, 29-45
WISSEMAN, R.J. *see* Betts and Wisseman, 46-51
WOLFF, J.O. NWS Forum: On the limitations of species-habitat association studies. 72-76
wolves
  gray wolf and coyote response to simulated howling, Gaines et al., 217-222
WOODWARD, D.L. *see* Colwell et al., 151-162
WOODY, C.A. *see* Konecki et al., 126-132
WURTSBAUGH, W.A. *see* Budy et al., 133-150
Wyoming
  ungulate grazing in Yellowstone, Singer, 191-203

YANG, H., C.J. SMILEY, K.F. SPRENKE, W.C. REMBER, and C.R. KNOWLES. Subsurface evidence for a rapid formation of the Clarkia Miocene lake in northern Idaho. 52-59
Yellowstone National Park
  ungulate grazing on winter range, Singer, 191-203

ZIMMERMAN, M.P., and R.M. PARKER. Relative density and distribution of smallmouth bass, channel catfish, and walleye in the lower Columbia and Snake Rivers. 19-28